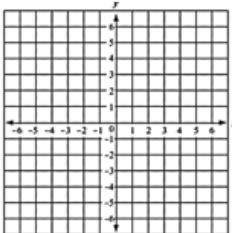## Ways to Prove a Right Triangle

1. Use the distance formula to show $a^2 + b^2 = c^2$.

2. Show you have a right angle by using slopes to prove that two lines are perpendicular.
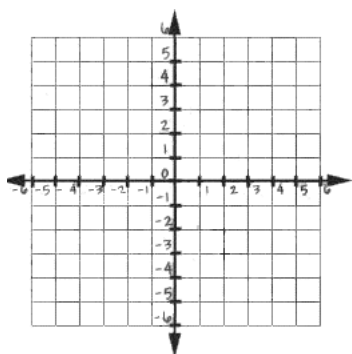
Given: A(2, 2), B(6, 1), &
 C(3, 6)

Prove: ABC is a right
 triangle in 2 ways

Other examples:

1. If AC is the hypotenuse of a right triangle, find two ordered pairs that could represent point B in Triangle ABC.

A(2, 3) and C(−3, −2)

2. Prove the triangle is a right triangle by using the Pythagorean Theorem.

A(−2, −3), B(−1, 1), & C(3, 0)